The structure of the "Global Part Numbers" that have been adopted since June 2001 and the meaning of each code are described herein. If you have any questions about details, inquire at your usual Murata sales office or distributor.

Part Numbering

Chip Monolithic Ceramic Capacitors

(Global Part Number) GR M 18 8 B1 1H 102 K A01 K

Product ID

2Series

Product ID	Code	Series	
GR	M	Tin Plated layer	
	Р	Soldering Electrode	
	F	High-frequency and high-power Type	
ER	н	High-frequency and high-power Type (Ribbon Terminal)	
	Α	High-frequency Type	
	D	High-frequency Type (Ribbon Terminal)	
GQ	М	High-frequency for Flow/Reflow Soldering	
GM	Α	Monolithic Microchip	
GN	M	Capacitor Array	
LL	L	Low ESL Wide-width Type	
GJ	6	Low Dissipation	
GJ	2	Smoothing Type	
GA	2	for AC250V (r.m.s.)	
GA	3	Safety Standard Recognized Type	

3Dimension (LXW)

Code	Dimension (LXW)	EIA	
03	0.6×0.3 mm	0201	
05	0.5×0.5 mm	0202	
08	0.8×0.8 mm	0303	
11	1.25×1.0 mm	0504	
15	1.0×0.5 mm	0402	
18	1.6×0.8 mm	0603	
1X	Depends on individual standards.		
21	2.0×1.25 mm	0805	
22	2.8×2.8 mm	1111	
31	3.2×1.6 mm	1206	
32	3.2×2.5 mm	1210	
3X	Depends on individual standards.		
42	4.5×2.0 mm	1808	
43	4.5×3.2 mm	1812	
52	5.7×2.8 mm	2211	
55	5.7×5.0 mm	2220	

4 Dimension (T)

Code	Dimension (T)	
3	0.3 mm	
4	4-elements (Array Type)	
5	0.5 mm	
6	0.6 mm	
7	0.7 mm	
8	0.8 mm	
9	0.85 mm	
Α	1.0 mm	
В	1.25 mm	
С	1.6 mm	
D	2.0 mm	
E	2.5 mm	
М	1.15 mm	
N	1.35 mm	
R	1.8 mm	
Q	1.5 mm	
Х	Depends on individual standards.	

With the array type GNM series, "Dimension(T)" indicates the number of elements.

5Temperature Characteristics

Code	Temperature Characteristics	Temperature Range	Cap. Change or Temp. Coeff.
1X	SL	-55 to 125°C	+350 to -1000ppm/°C
5C	C0G	-55 to 125°C	0±30ppm/°C
6C	C0H	-55 to 125°C	0±60ppm/°C
6P	P2H	-55 to 85°C	-150±60ppm/°C
6R	R2H	-55 to 85°C	-220±60ppm/°C
6T	T2H	-55 to 85°C	-470±60ppm/°C
7 U	U2J	-55 to 85°C	-750±120ppm/°C
В3	В	-25 to 85°C	±10%
E4	Z5U	10 to 85°C	+22, -82%
F5	Y5V	-30 to 85°C	+22, -82%
R3	R	-55 to 125°C	±15%
R6	X5R	-55 to 85°C	±15%
R7	X7R	-55 to 125°C	±15%

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Continued from the preceding page.

(Global Part Number) GR M 18 8 B1 1H 102 K A01 K

6 Rated Voltage

Code	Rated Voltage	
0J	DC6.3V	
1A	DC10V	
1C	DC16V	
1E	DC25V	
1H	DC50V	
2A	DC100V	
2D	DC200V	
2E	DC250V	
YD	DC300V	
2H	DC500V	
2J	DC630V	
3A	DC1kV	
3D	DC2kV	
3F	DC3.15kV	
E2	AC250V	
GB	X2; AC250V (Safety Standard Recognized Type GB)	
GC	X1, Y2; AC250V (Safety Standard Recognized Type GC)	
GD	Y3; AC250V (Safety Standard Recognized Type GD)	
GF	Y2; AC250V (Safety Standard Recognized Type GF)	

Capacitance

Ex.)

Expressed by three figures. The unit is pico-farad(pF). The first and second figures are significant digits, and the third figure expresses the number of zeros which follow the two numbers. If there is a decimal point, it is expressed by the capital letter "R". In this case, all figures are significant digits.

Code	Capacitance
R50	0.5pF
1R0	1.0pF
100	10pF
103	10000pF

8 Capacitance Tolerance

Code	Capacitance Tolerance	TC	Series	Capacit	tance Step
В	±0.1pF	СΔ	GJ6,GQM	≦5pF	E24 Series,1pF
С	10.2EpF	C∆–SL	GRP/GRM/ERF/ERH/ERA/ERD	≦5pF	* 1pF
C	±0.25pF	СΔ	GJ6,GQM	<10pF	E24 Series,1pF
	IO En F	C∆–SL	GRP/GRM	6.0 to 9.0pF	* 1pF
D	±0.5pF	СΔ	ERF/ERH/ERA/ERD	5.1 to 9.1pF	E24 Series
G	±2%	СΔ	GJ6	≥10pF	E12 Series
G		СΔ	GQM	≧10pF	E24 Series
	±5%	C∆–SL	GRP/GRM	≧10pF	E12 Series
J		СΔ	ERF/ERH/ERA/ERD	≥10pF	E24 Series
K	1100/	B,R,X7R,X5R,ZLM	GRP/GRM/GA3	E6	Series
N.	±10%	B,R,X7R	LLL	E12	Series
		Z5U	GRM	E3	Series
M	±20%	B,R,X7R	GMA	E6	Series
		В	GA2	E3	Series
Z	+80%, -20%	F,Y5V	GRP/GRM/GJ2	E3	Series
2		F,Y5V,E	LLL	E6	Series
R	Depends on individual standards.				

^{*} E24 series is also available.

Continued from the preceding page.



9Individual Specification Code

Code	Individual Specification	
A**/B**/C**/W**	Base Metal Inner Electrode	
Other than above	Precious Metal Inner Electrode	

^{*} indicates an alphabet or figure.

Packaging

Code	Packaging	
E	ø178mm 2mm Pitch Paper Taping	
F	ø330mm 2mm Pitch Paper Taping	
L	ø178mm 4mm Pitch Plastic Taping	
D	ø178mm 4mm Pitch Paper Taping	
K	ø330mm 4mm Pitch Plastic Taping	
J	ø330mm 4mm Pitch Paper Taping	
В	Bulk	
С	Bulk Case	
Т	Bulk Tray	